

Application No.: 09/965,568

Preliminary Amendment dated: December 29, 2003

Request for Continued Examination

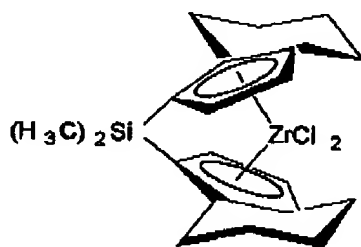
Please amend the claims as follows:

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Original) A mixed metallocene catalyst system comprising:

a) a dimethylsilyl-bridged bis-indenyl zirconocene dichloride, wherein said indenyl is saturated; and

b) a dimethylsilyl-bridged bis-indenyl zirconocene dichloride, wherein said indenyl is unsaturated.

10. (Original) The mixed metallocene catalyst system of Claim 9 wherein said dimethylsilyl-bridged bis-indenyl zirconocene dichloride of a) has a structure represented by:



wherein said structure has substituents or is unsubstituted.

11. (Original) The mixed metallocene catalyst system of Claim 10 wherein the substituents on the ring are the same or different.

Application No.: 09/965,568

Preliminary Amendment dated: December 29, 2003

Request for Continued Examination

12. (Original) The mixed metallocene catalyst system of Claim 10 wherein the ring is unsubstituted.
13. (Original) The mixed metallocene catalyst system of Claim 9 wherein said system is supported.
14. (Original) The mixed metallocene catalyst system of Claim 13 wherein said support is one of silica, silicates, clay, alumina, or composite oxides.
15. (Original) The mixed metallocene catalyst system of Claim 13 wherein said support is silica.
16. (Original) The mixed metallocene catalyst system of Claim 9 wherein said mixed metallocene catalyst system is activated by one of methylalumoxane, modified methylalumoxane, or non-coordinating anions, or mixtures thereof.
17. (Original) The mixed metallocene catalyst system of Claim 9 wherein said catalyst system is activated by methylalumoxane.
18. (Original) The mixed metallocene catalyst system of Claim 9 wherein said saturated a) and said unsaturated b) indenyl groups are present in said mixed metallocene catalyst system at a ratio of 90:10, 10:90, 80:20, 20:80, 60:40, 40:60; or 50:50.
19. (Original) The mixed metallocene catalyst system of Claim 9 wherein said a) is dimethylsilylbis(tetrahydro-1-indenyl) zirconium dichloride, b) is rac-dimethylsilylbis(1-indenyl)zirconium dichloride, and wherein said a) and said b) are present in said mixed metallocene catalyst system in a ratio of

Application No.: 09/965,568

Preliminary Amendment dated: December 29, 2003

Request for Continued Examination

60:40 to 40:60, and wherein said catalyst is activated by methyl alumoxane.

20. (Original) A mixed catalyst system comprising:

a) a bridged indenyl zirconocene dichloride wherein the indenyl group is saturated, and the substituents at each position are hydrogen; and

b) a bridged indenyl zirconocene dichloride, wherein the indenyl is unsaturated;

wherein said a) and said b) are each supported separately, on a silica support;

wherein said a) and b) are present in said mixed metallocene catalyst system in a ratio of 40:60 to 60:40; and

wherein said mixed catalyst system is activated by methylalumoxane.

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)